

Section 2.3: Comparing Ratios

1. Mr. James' class has a ratio of 2 boys to 3 girls.
Ms. Singh's class has a ratio of 1 girl to 2 boys.
Both classes have 30 students.
How many boys and girls are in each class?
2. At the carnival, the Ring Toss advertises that 3 of every 7 players win a prize.
The Pop the Balloon game advertises that 4 of every 9 players win a prize.
Which game would you play? Explain.
3. The Blazers hockey team has won 7 of its first 12 games. No game was tied.
The Rockets' record is 5 wins and 3 losses.
Which team has the better record?
4. Concentrate and water are mixed to make juice.
Which is the stronger mixture: A or B? Explain.
Mixture A: 3 parts concentrate to 5 parts water
Mixture B: 4 parts concentrate to 7 parts water
5. Here are the ratios of cats to dogs in different kennels in the city.
In each case, state which kennel has the greater number of dogs.
 - a) Kennel A, 5:6 or Kennel B, 7:9
 - b) Kennel C, 8:11 or Kennel D, 15:19
 - c) Kennel E, 3:4 or Kennel F, 2:3
6. There is a total of 600 blue, yellow, and red balls in a machine.
The ratio of blue balls to the total number of balls is 1:4.
The ratio of yellow balls to blue balls is 7:3.
The ratio of blue balls to red balls is 3:2.
Which colour of balls is most common?